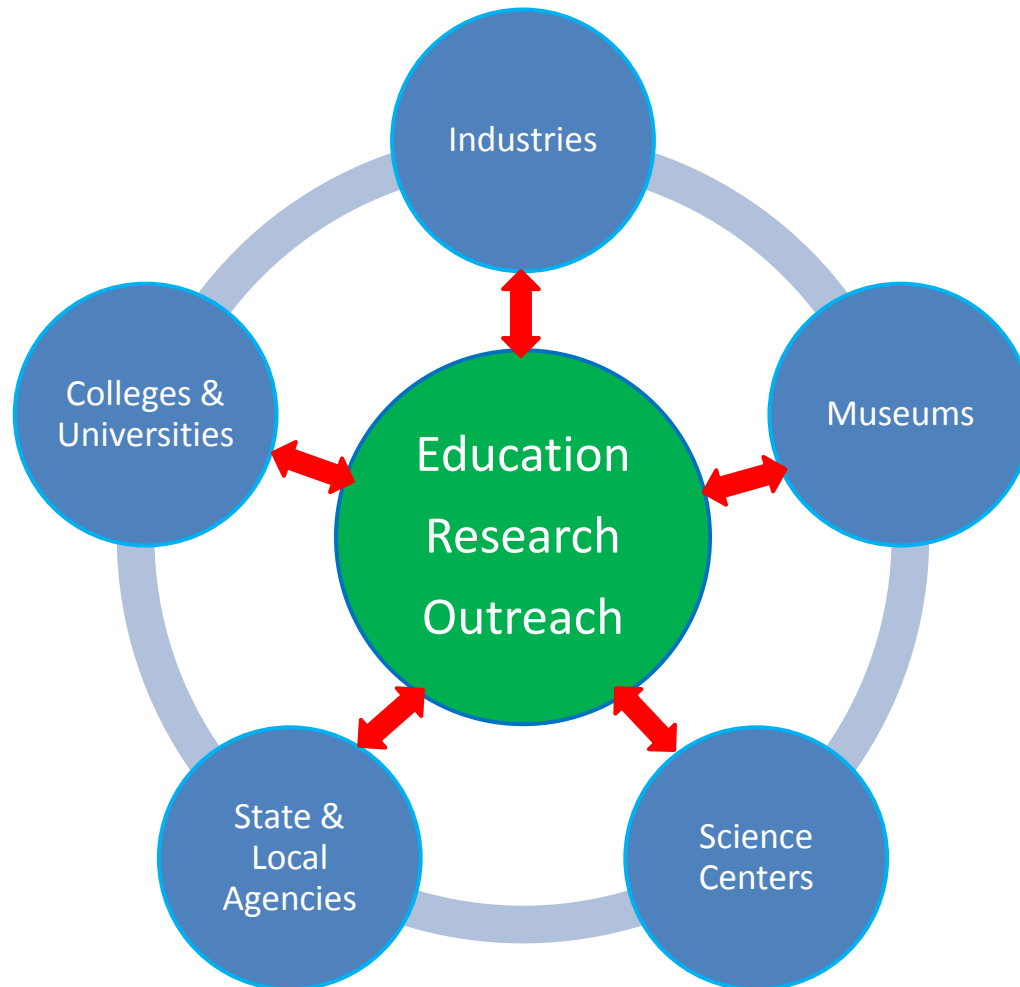
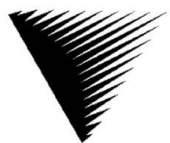


Virginia Space Grant Consortium

Mary Sandy
Director

Space Grant Consortia Support and Enhance STEM Education, Research and Public Outreach





Space Grant Consortia

America's Space Grant Program

52 Consortia:

Every state + D.C. and Puerto Rico

1000+ Affiliates:

652 higher education

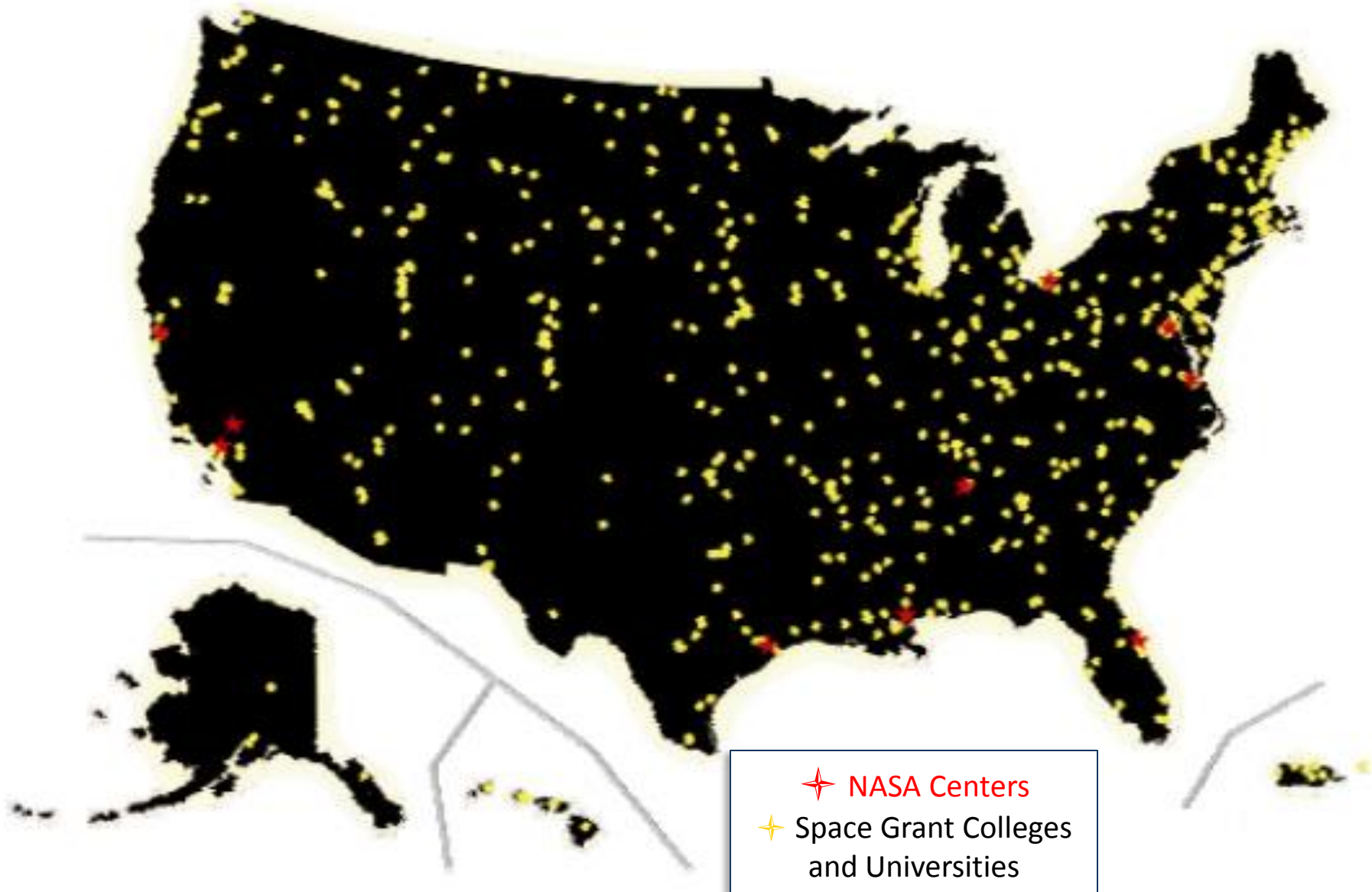
87 industry

83 governmental (state/local/federal)

76 museum/science centers

89 other local partners

America's Space Grant Program



Space Grant Consortia Sponsor Many Different Types of STEM Programs and Projects

Mentoring

Professional development

Outreach activities

Research Experiences

Residential Education Experiences

Partners with NASA to provide support for special events and activities

Establishing Networks

Disseminates information on NASA

Implementing partner for state-based mission directorate initiatives

Student Ambassadors Programs

Innovative Projects

Course Development

Faculty Workshop and Fellowship

Education Initiatives

Academic Innovation Challenges

NASA Academy Programs

Build network/state infrastructure to compete for federal funds

Explorer Schools

Student Internship Programs

Student-led Flight Projects

Collaborates with NASA centers and mission directorates to create regional and discipline-specific communities

VIRGINIA SPACE GRANT CONSORTIUM



The Virginia Space Grant Consortium (VSGC) serves as a catalyst for the enhancement of STEM and aerospace-related education, workforce development, and research in the Commonwealth to foster an improved quality of life. The Virginia Space Grant Consortium acts as an umbrella organization, coordinating and developing quality STEM high technology, educational, workforce development and research efforts throughout the Commonwealth.

Each seed Space Grant dollar in Virginia has been leveraged by more than \$7 of other funding in recent years. VSGC has worked with over 400 non-member program partners from private and public sectors.

VSGC PROGRAMS INCLUDE:

- Undergraduate Research Scholarships
- Graduate Research Fellowships
- Internships at NASA Centers and Industry
- Student-Led Flight Projects Including Cubesats, High-Altitude Balloon Launches, Airborne and Rocket Programs
- Faculty Research and Curriculum Enhancement Support
- Pre-College Student Programs:
 - Online Courses for Credit
 - Summer Academies Hosted by NASA Centers and Education Partners
 - STEM Exploratory Saturday Programs
- Geospatial Technology Professional Development for Precollege and Higher Education Faculty
- Pre-college Teacher Professional Development in STEM and Using NASA Resources
- Informal Education and Public Outreach

RECOGNITION IN 2014

- Programs That Work Award from Virginia Math Science Coalition for Virginia Aerospace Science and Technology Scholars
- NASA Group Achievement Award for Langley Aerospace Research Summer Scholars (LARSS) Program
- NASA Robert H. Goddard Award for Virginia Space Coast Scholars

VSGC strives to increase diversity in the STEM pipeline through participation of underrepresented minorities, females, and people with disabilities.

MEMBERS:

- College of William and Mary
- Hampton University
- Old Dominion University
- University of Virginia
- Virginia Tech
- NASA Langley Research Center
- NASA Goddard Space Flight Center's Wallops Flight Facility
- State Council of Higher Education for Virginia
- Virginia Community College System
- Virginia Department of Education
- MathScience Innovation Center
- Science Museum of Virginia
- Virginia Air and Space Center
- Center for Innovative Technology



**1989-2014
VSGC
Celebrates
25th
Anniversary**

VSGC Scholarships/Fellowships

Since 1989, the VSGC has awarded \$5,682,803 in NASA and state support to 1,358 students at Virginia's Space Grant institutions.

- Undergraduate Research Scholarships -- \$1,798,914 to 249 students (\$8,500 award)
- Graduate Research Fellowships -- \$3,376,389 to 677 students (\$5,000 renewable award)
- Teacher Education Scholarships -- \$161,000 to 161 students
- Community College Scholarship -- \$215,000 to 139 students (\$2,000 award)
- Undergraduate STEM Bridge Scholarship -- \$131,500 to 132 students (\$1,000 renewable award).





Poisoned Kool Aid Challenge



Habitat for Penguins



Kathryn Thornton,
former astronaut



Virginia Space Coast Scholars

Launchpad to Study the Earth, Atmosphere, and Beyond

Who can apply?

- High-school sophomores
- Virginia and U.S. citizens
- 2.7 GPA
- Demonstrated interest in STEM

- Engage
- Expose
- Inspire
- IGNITE

The Commonwealth of Virginia passed legislation to fund this program for FY 2013 and FY 2014

Online
Learning
Experience

Dynamic

Residential
Summer
Academy

Scientific
Exploration

Interactive

Flight
Opportunities

Inquiry-based



Virginia Aerospace Science and Technology Scholars



Virginia Space Grant
Consortium



*Explore Where
Science, Technology,
Engineering, and
Math
Can Take You!*

- 2013-2014



ONE APPLICATION - 90+ COMPANIES THROUGHOUT VIRGINIA



FAA Design Competition for Universities

NASA Innovations in Climate Education (NICE)

Improving the nation's climate literacy

Inspiring the next generation

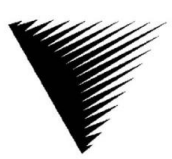




THE VSGC NICE TEAM

Mary Jo Leber, Educational Project Manager
Kirsten Manning, Education Program Specialist
Laura deBlois, Project Assistant





VSGC

Primary Role

To help build the NICE community

Website



NICE
NASA Innovations in Climate Education
a Minority University Research and Education Program (MUREP)

Home
About Us
Resources
Climate Data
Educators
Project Portfolio
Evaluator Workspace
PI Workspace
TrACE
Federal Partners

NASA Innovations in Climate Education (NICE) is a competitive project to promote climate and Earth system science literacy and seeks to increase the access of underrepresented minority groups to science careers and educational opportunities.

Since 2009, NICE has funded 71 education projects across the country that leverage NASA's unique contributions in climate science, including Earth observation data and Earth system models, to reach teachers and students. Through these efforts, the portfolio of NICE projects advances our understanding of how to effectively teach global climate change concepts, increase public climate literacy, and contribute to the development of a diverse future workforce in climate-related sciences.

"Ask NICE"
We'll bring the content. You bring the questions.
Click here for more information, or to join a session in progress.
Online sessions covering Earth System Science topics. Join us every third Thursday of the month!

University of Nebraska-Lincoln
Dr. David Gosselin

Locally, culturally relevant

Research-driven baseline climate fingerprints at

Climate Education News

- > NOAA Climate.gov/illies Webinars
- > VABO HSTEP applicants needed ASAP
- > 2014-15 NASA LEARN Teacher Opportunity
- > Excellent NASA OASMP Webinar Series to Attend
- > VINEB Workshop Opportunity

TrACE

The Tri-Agency Climate Education (TrACE) Catalog provides search and browse access to a catalog of educational products and resources. TrACE focuses on climate education resources that have been developed by initiatives funded through NASA, NOAA, and NSF, comprising a tri-agency collaboration around climate education. Click here to access TrACE.

NICE Categories

- > Climate Change
- > Climate Change Curricula
- > Climate Change Events
- > Climate Change Tools
- > Opportunities for Students
- > Opportunities for Teachers
- > Professional Development
- > STEM
- > Teacher Resources

NICE Events

Showing events after 6/11.
[Look for earlier events](#)

Showing events until 7/16.
[Look for more](#)

Events shown in time zone: [Google Calendar](#)

Log In
Username:
Password:

☒ Remember Me
[Lost your password?](#)

National Aeronautics and Space Administration
Freedom of Information Act | NASA Web Privacy Policy
Responsible NASA Official: Dr. Jan Chavers
Page Curator: Daniel H. Oostra | [Questions?](#) [Comments?](#) [Contact Us](#)

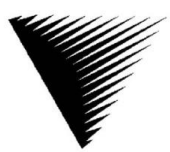
Organize quarterly WebTeam meetings

Assist in website development

Developed educational resource page

Provides website content to Web Developer, Dan Oostra –
send us your info to post

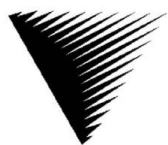
<https://nice.larc.nasa.gov/>



Communications

Maintains NICE email lists – we invite you to use the listservs to communicate announcements

VSGC has contributed to articles for Weekly Activity Reports and Nuggets, written proposals for various meetings/workshops, developed promotional materials, surveys, announcements, informational emails, etc. You will receive communications from us!

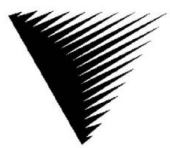


VSGC

Quarterly Evaluator Webinars

The NICE Project Evaluator, Ann Martin, hosts virtual Quarterly Evaluator Webinars for online participation by the individual NICE project evaluators.

VSGC records these webinars and coordinates their posting online

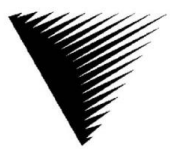


Reporting

Assists in data reporting at various levels

Participated on development teams for improved systems

Conduct preliminary quality review of PAFs



VSGC

Professional Development

Professional Development Workshops

Staff STEM Briefings (Norfolk State University, Virginia State University in Petersburg, VA)

Ask NICE

“Ask NICE”

We'll bring the content. You bring the questions.

Educator Professional Development

from

NASA Innovations in Climate Education (NICE)

Third Thursdays from 4:00-5:00PM ET

Online sessions covering Earth System Science topics such as:

- Earth's Energy Budget/Student Cloud Observations On-Line: S'COOL
- Climate Change Summary: What We Know and How We Know It
- Impacts of Climate Change/The GLOBE Program: Green-Up
- The Green Ninja: A Climate Action Superhero

Visit the NICE website for the current schedule

nice.larc.nasa.gov



Sponsored by Minority University Research and Education Program (MUREP)-(NICE)

NICE Teacher Professional Development Workshop Series

April 9th, 11th, 16th, and 18th 2013

The Minority University Research and Education Program's (MUREP) NASA Innovations in Climate Education (NICE) program presented a four-part Teacher Professional Development Workshop Series in partnership with the Virginia Space Grant Consortium (VSCG), via the Digital Learning Network (DLN).



Both onsite and online Science, Technology, Engineering, and Math (STEM) K-12 educators from throughout the nation learned about climate literacy and classroom resources from NASA and NICE Earth Systems Scientists.

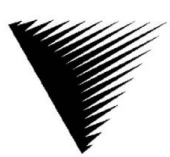


This interactive series began with examination of the greenhouse effect and the earth's energy budget, then discussed climate change and culminated with the complex effects of climate change on the earth's biosphere. The participants were unanimous in their request for more information on these and other topics.



For more information, visit the NICE website at <http://nice.larc.nasa.gov/node/129>

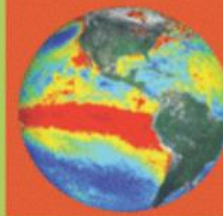
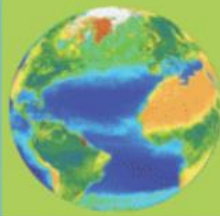
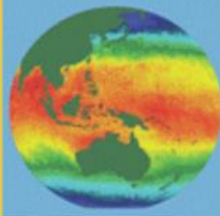
Mary Jo Leber
VSGC Program Manager
Maryjo.leber@nasa.gov



VSGC

Networking

CLEAN



CLIMATE LITERACY & ENERGY AWARENESS NETWORK

Climate Change & Sea Level Rise
Initiative

“Community Discussions”

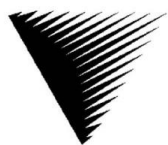


- ❖ **Virtual Meetings with NICE PI's from around the nation**
- ❖ **Project Overviews**
- ❖ **Topics of Interest**
- ❖ **Project wrap-ups - Lessons Learned**

March 2014 Community Discussion

Chugach S.D. NICE (GCCE) Project





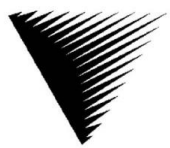
VSGC

Public Outreach

Promote climate literacy by

Distributing promotional and educational materials, especially those developed by NICE Pls

Providing NICE website tours at national and regional meetings, as well as at local events – showing educators how to access resources



VSGC

Meetings

Represent the NICE team at meetings

Organize workshops

Staff Registration desk

Assist in Coordination

Organize Meet and Greet events

Network

Public Outreach Activities



AIHEC Spring Conference: Climate Education



Virginia Environmental Education Conference

Virginia Math Specialist Conference –“Using NASA Data in the Math Classroom”

MODSIM World Conference and Expo 2011

A
G
U



Women in Mathematics - ECSU

American Meteorological Society



NSTA 2010-2011

A
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Geoscience Alliance Meeting

National
Research Council
Climate



Rowan-Cabarrus Community
College Panel on BEST Practices in
Collaboration

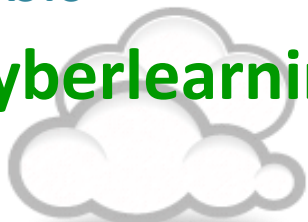
Roundtable Johnson C. Smith STEM Conference in Charlotte, NC

Geoscience Alliance Meeting

VASTS

National Council for Science and the Environment

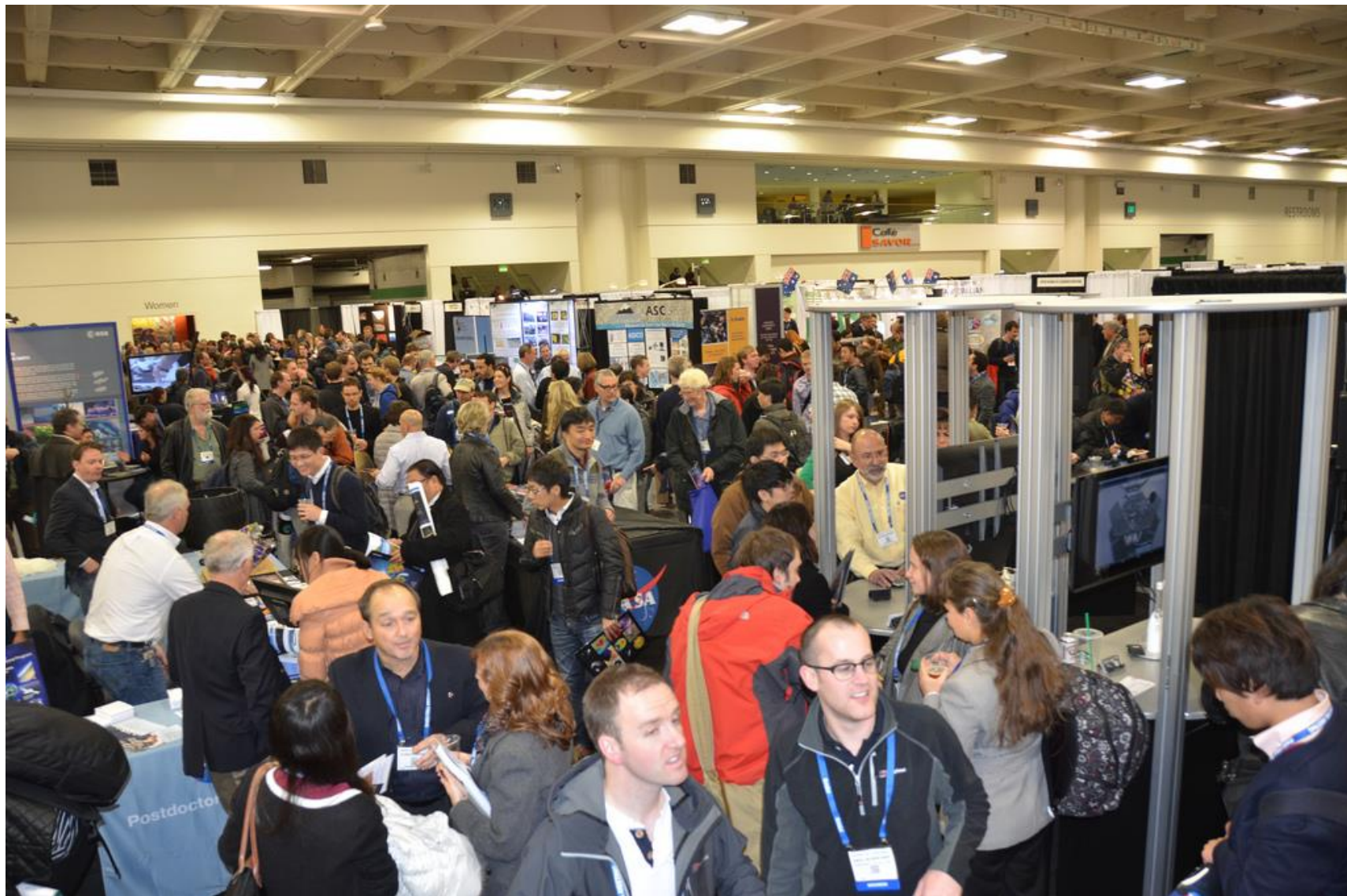
Cyberlearning Tools for Climate Literacy Workshop



Hampton Roads Sustainable Living Expo



AGU - 2013



VSGC Promoting NICE at the AGU





The 2013 Annual Meeting of the Climate Change Education Pls



NESTA-GIFT Share-a-thon



Dan Zalles (SRI)



Kevin Czajkowski
Univ. of Toledo



Bonnie
Murray



Rusty
Low

Ellen Metzger and Eugene Cordero
(San Jose State University)

Welcome, New Pls!

We look forward to working with you!